

Attachment chemistry

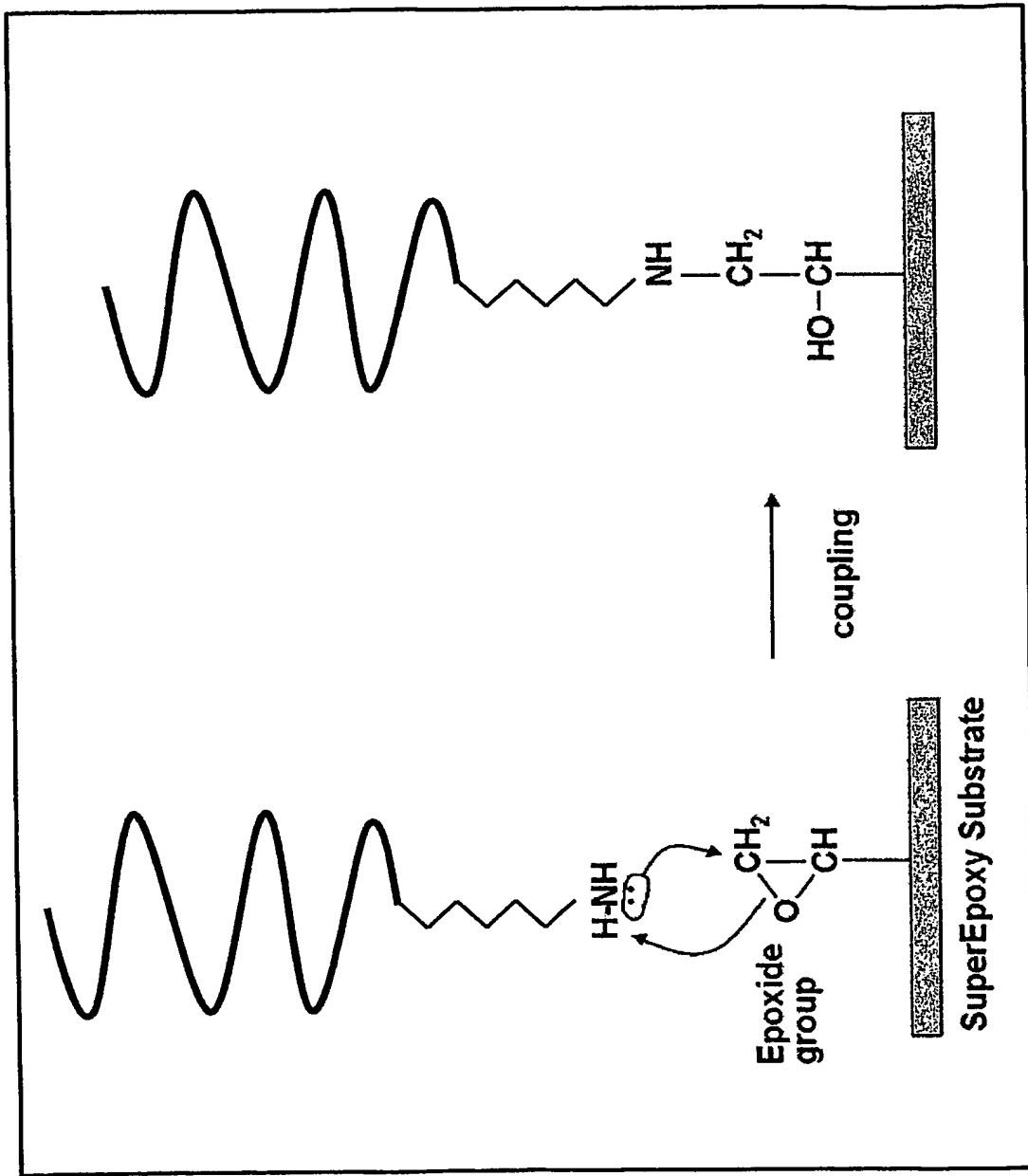


Figure 1

Microarray based genotyping

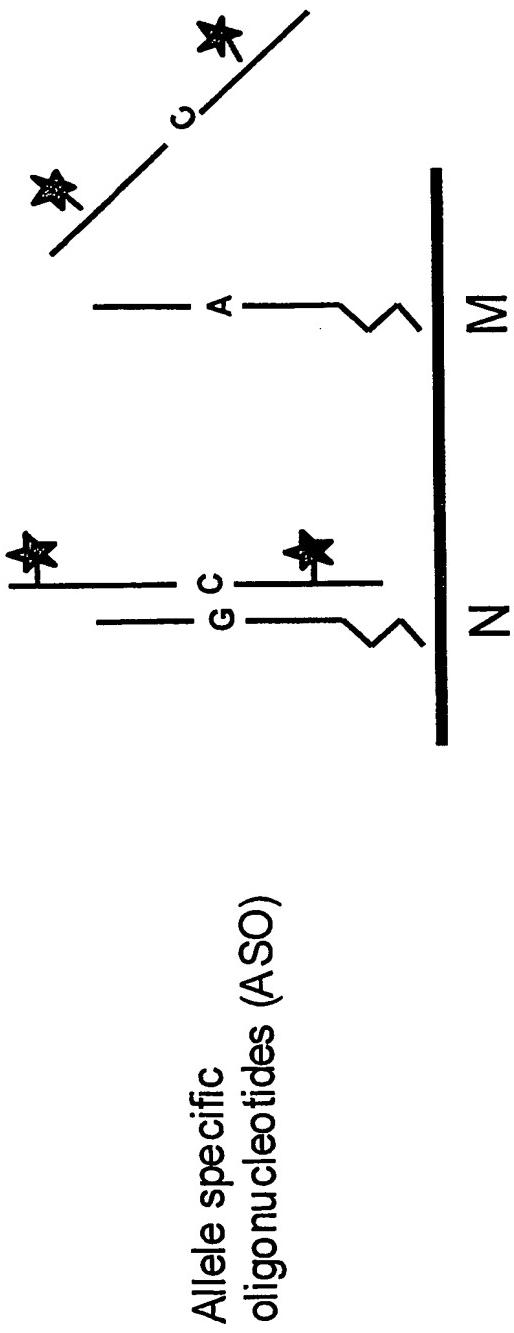


Figure 2

Step 1: Genotyping of connexin 26 35ΔG and M34T mutations (i)

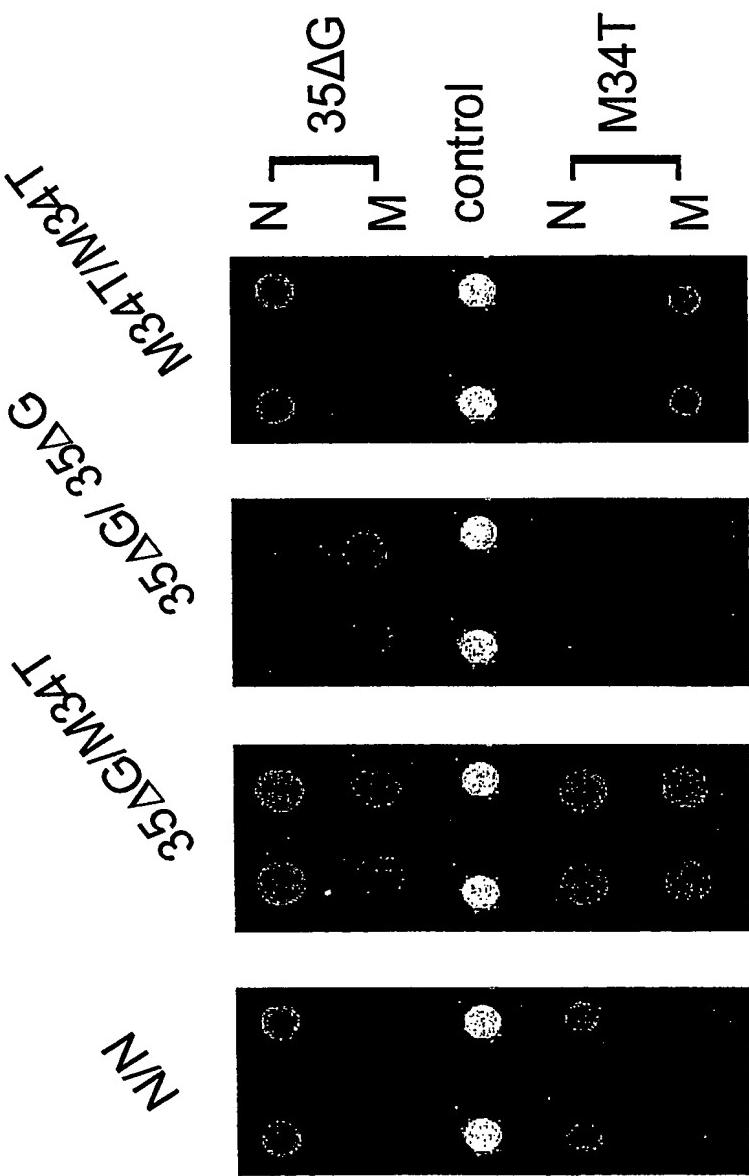


Figure 3

Step 1: Genotyping of connexin 26 35ΔG and M34T mutations (ii)

$$\text{Genotype Index (GI)} = \frac{SV_N}{(SV_N + SV_M)}$$

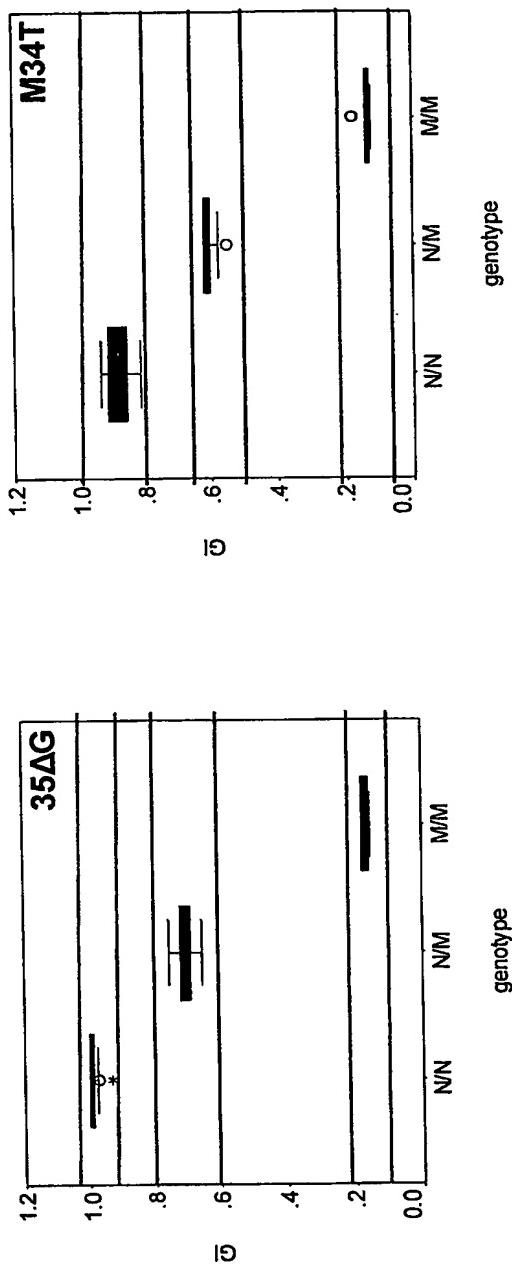


Figure 4

Step 2: Genotyping of connexin 26 mutations

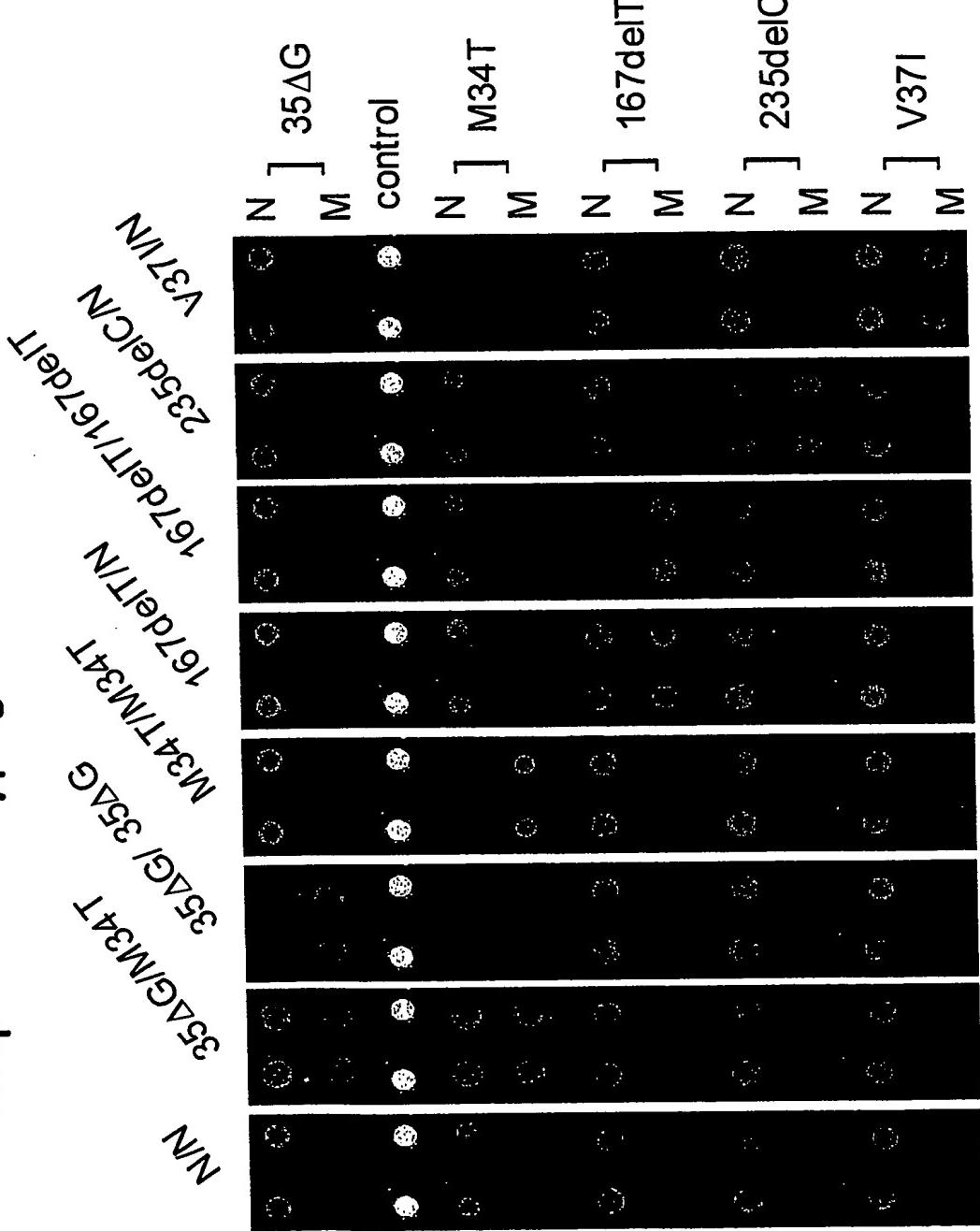


Figure 5

Step 2: Genotyping of pendrin and 12S rRNA mutations

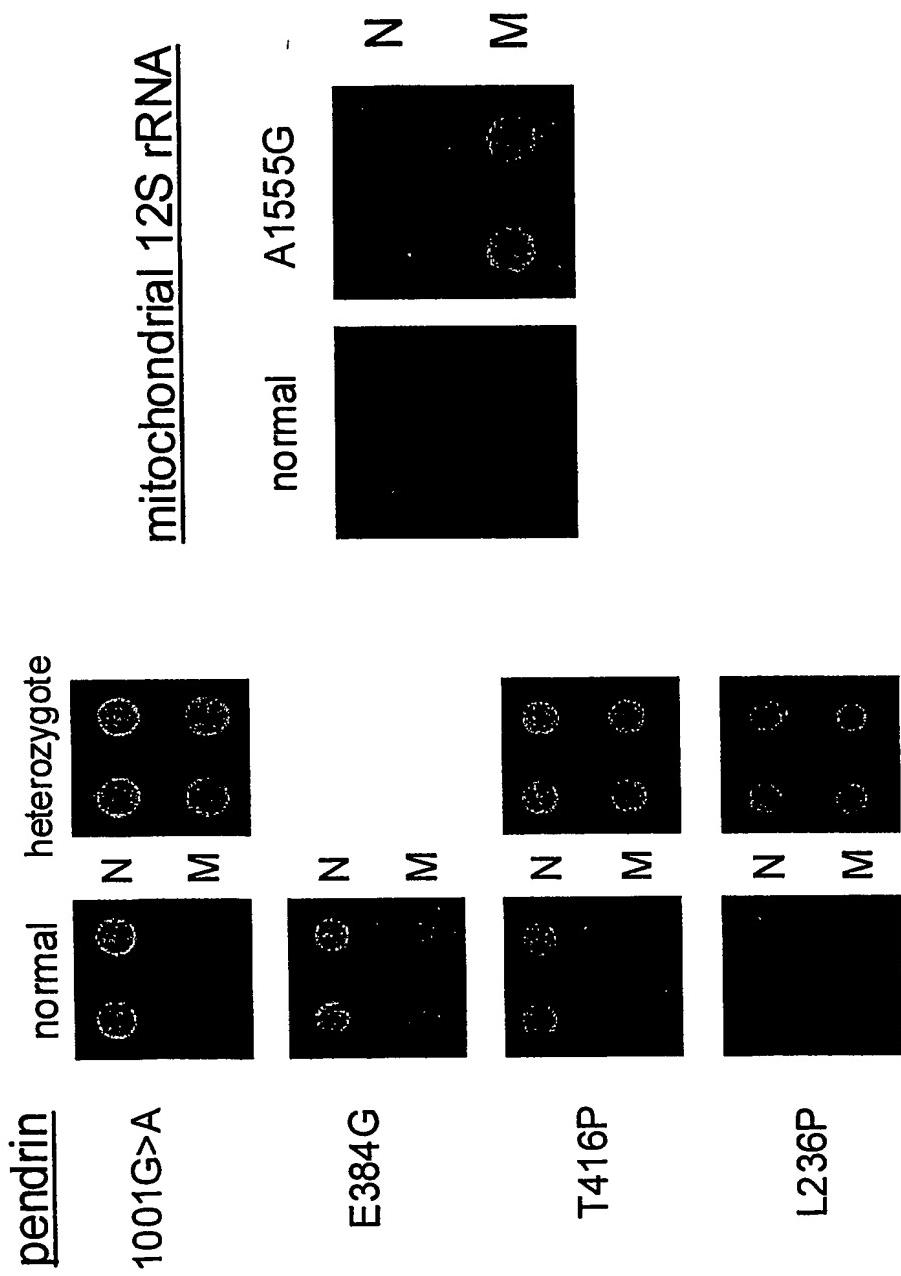


Figure 6

Genotyping summary

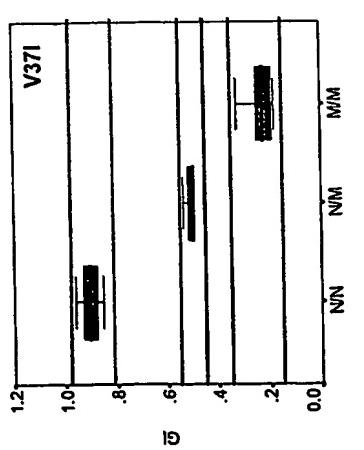


Figure 7A

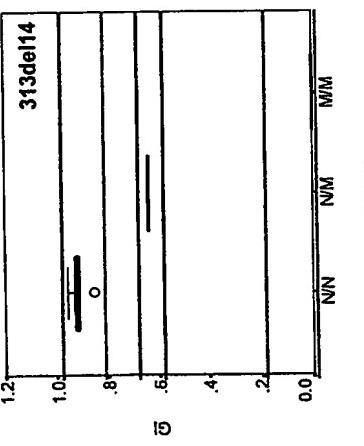


Figure 7B

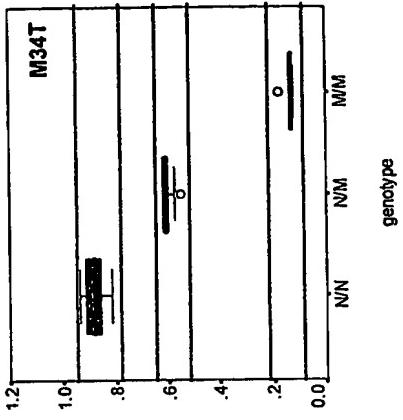


Figure 7C

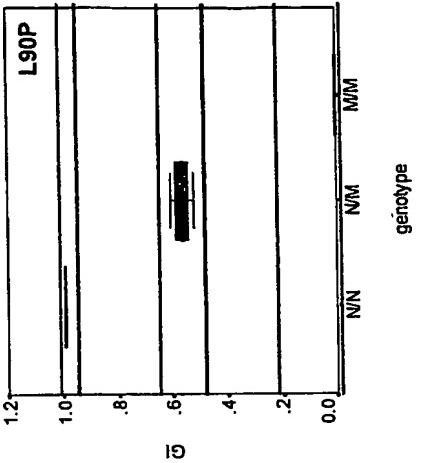


Figure 7D

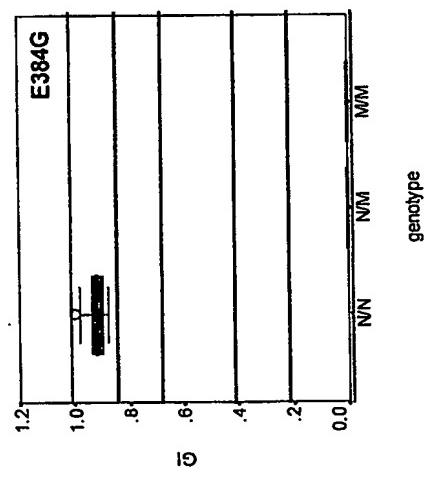


Figure 7E

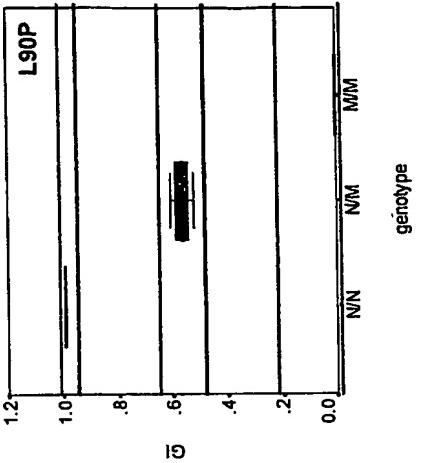


Figure 7F

Genotyping summary

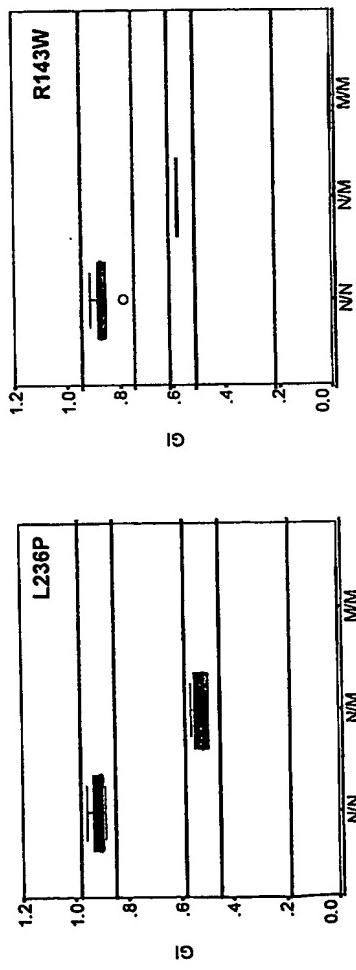


Figure 7G

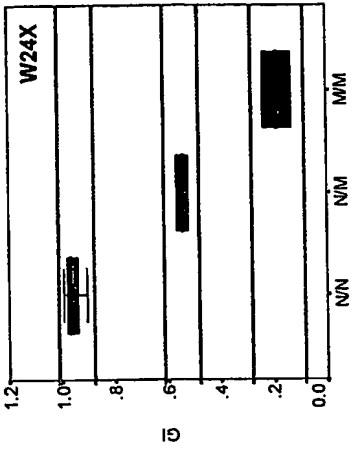


Figure 7H

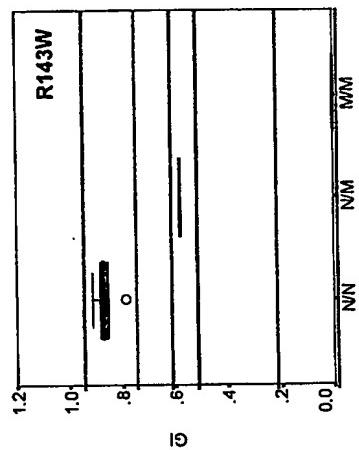


Figure 7I

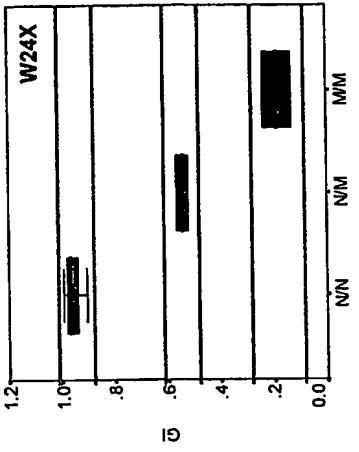


Figure 7J

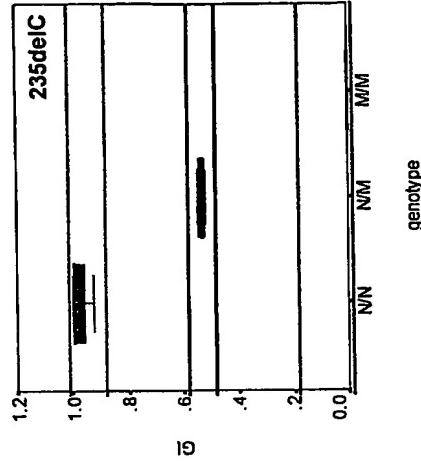


Figure 7K

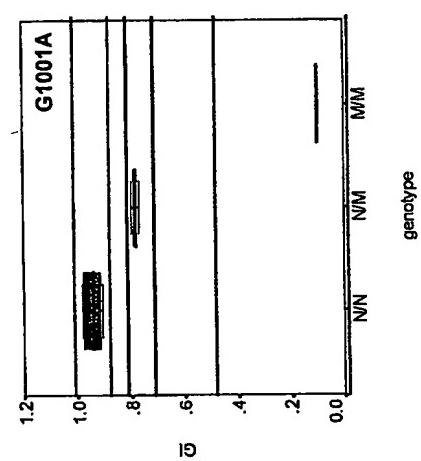


Figure 7L

Genotyping summary

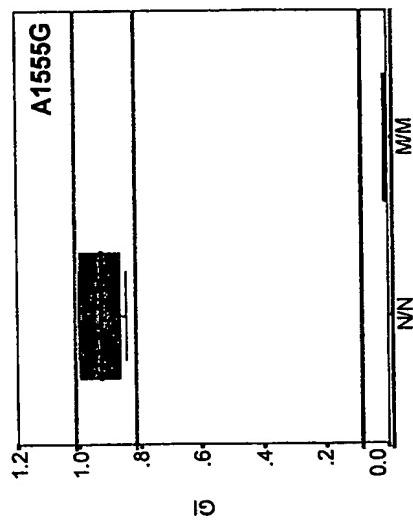


Figure 7M

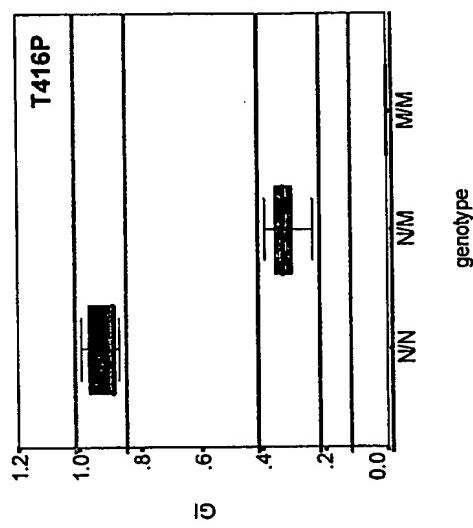


Figure 7N

Genotype calling algorithm

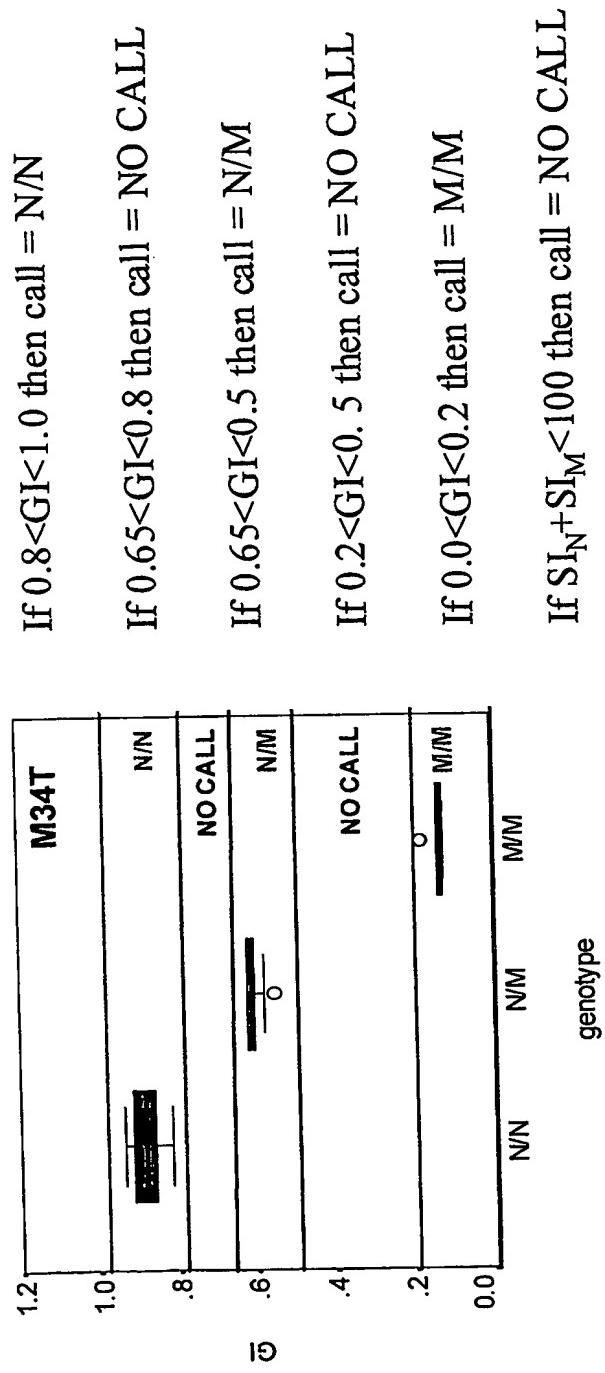
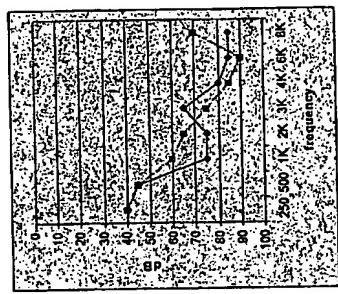


Figure 8

Interactions between deafness genes?

- severe hearing loss
- progressive
- age of onset 10 years



Mutation	Call	Call	Call	Call
connexin 26	NN	NN	NN	NN
35delG	0.992806	NN	NN	NN
W24X	0.93836	NN	NN	NN
M34T	0.619185	NN	NN	NN
V37I	0.902981	NN	NN	NN
167delT	0.999151	NN	NN	NN
235delC	0.997346	NN	NN	NN
L90P	0.992122	NN	NN	NN
R143W	0.862635	NN	NN	NN
313del14	0.932165	NN	NN	NN
pendrin	L236P	0.935414	NN	NN
	G1001A	0.906897	NN	NN
	E384G	0.941176	NN	NN
	T416P	0.969543	NN	NN
12S rRNA				
	A1555G	0.007764	MM	MM
usherin	2299delG	0.995937	NN	NN

Figure 9